

CITY OF JACKSON
O. B. Curtis Water Treatment Plant
Monthly Report For HS# 1

System ID **250008-02**
Month of **January 2020**

- | | |
|---|------------|
| 1. Total number of turbidity measurements taken during the month. | CONTINUOUS |
| 2. Percentage of turbidity that were equal to or less than the turbidity limit of 0.3 NTU. | 93.5% |
| 3. Number of filters that exceeded 0.5 NTU in 2 consecutive readings taken 15 min. apart after first four hours of operation. | NONE |
| 4. Number of filters that exceeded 1.0 NTU in 2 consecutive readings taken 15 min. apart in 3 consecutive months. | NONE |
| 5. Lowest daily disinfectant concentration entering the distribution system in mg/l. | |

1	3.2	7	2.4	13	2.2	19	2.5	25	1.5
2	3.2	8	2.2	14	3.1	20	2.9	26	2.0
3	2.8	9	2.8	15	2.8	21	2.9	27	2.0
4	1.9	10	2.9	16	2.0	22	2.0	28	1.1
5	2.3	11	2.3	17	2.7	23	2.2	29	1.8
6	2.3	12	2.2	18	3.4	24	1.3	30	2.2
								31	2.3

- | | |
|--|------|
| 6. Date and duration of each period the disinfectant fell below 0.2 mg/l for more than an hour while entering the distribution system. | NONE |
| 7. Total number of disinfectant residual measured in the distribution system where total coliform samples were collected. | 125 |
| 8. Number of instances where disinfectant was not measured in the distribution system where total coliform samples were collected. | NONE |
| 9. Number of instances where disinfectant was measured in the distributed system but not detected. | NONE |

City Of Jackson, MS
O. B. Curtis Surface Water Treatment Plant
Turbidity Compliance Report

System ID
Month Of

250008-02
January 2020

Jan 2020	TURBIDITIES (NTU)		
	RAW	SETTLED	FINISHED
1	28.6	1.46	0.08
2	25.2	1.46	0.09
3	28.1	1.37	0.12
4	30.4	1.36	0.11
5	28.6	1.46	0.08
6	27.7	1.40	0.10
7	33.6	1.50	0.08
8	31.4	1.41	0.08
9	30.3	1.49	0.08
10	36.8	1.58	0.10
11	37.6	1.48	0.20
12	36.3	1.68	0.10
13	30.7	1.40	0.18
14	34.9	2.07	0.17
15	32.3	1.42	0.08
16	33.2	1.85	0.09
17	39.9	1.88	0.19
18	46.4	5.11	0.09
19	47.3	2.75	0.14
20	42.7	7.27	0.22
21	40.5	1.81	0.22
22	39.0	1.33	0.25
23	36.9	3.46	0.20
24	34.3	1.80	0.25
25	35.0	6.60	0.58
26	32.7	5.18	0.38
27	31.8	1.88	0.25
28	30.7	6.44	1.35
29	32.3	6.46	0.20
30	38.1	3.92	0.34
31	36.2	2.17	0.14
MIN	25.2	1.33	0.08
MAX	47.3	7.27	1.35
Avg	34.5	2.66	0.15

City Of Jackson, MS
O. B. Curtis Surface Water Treatment Plant
Turbidity Compliance

System ID
Month Of

250008-02
January 2020

Jan 2020	TIME					
	12:00 AM	4:00 AM	8:00 AM	12:00 PM	4:00 PM	8:00 PM
1	0.07	0.07	0.07	0.07	0.08	0.08
2	0.08	0.09	0.09	0.09	0.09	0.09
3	0.11	0.11	0.12	0.10	0.09	0.09
4	0.09	0.09	0.11	0.11	0.09	0.08
5	0.08	0.08	0.08	0.08	0.08	0.07
6	0.07	0.10	0.09	0.07	0.07	0.07
7	0.07	0.08	0.08	0.08	0.08	0.08
8	0.08	0.08	0.07	0.07	0.07	0.07
9	0.08	0.08	0.08	0.08	0.08	0.08
10	0.08	0.08	0.09	0.09	0.10	0.10
11	0.11	0.11	0.11	0.20	0.09	0.08
12	0.07	0.07	0.07	0.08	0.10	0.07
13	0.07	0.11	0.12	0.18	0.18	0.18
14	0.17	0.14	0.12	0.09	0.09	0.08
15	0.07	0.07	0.08	0.08	0.08	0.07
16	0.08	0.09	0.09	0.09	0.09	0.08
17	0.07	0.13	0.19	0.08	0.07	0.07
18	0.07	0.07	0.07	0.07	0.07	0.09
19	0.09	0.10	0.10	0.10	0.10	0.14
20	0.14	0.14	0.14	0.13	0.22	0.20
21	0.21	0.20	0.15	0.14	0.15	0.22
22	0.22	0.25	0.25	0.18	0.22	0.14
23	0.13	0.17	0.20	0.19	0.19	0.16
24	0.12	0.14	0.15	0.16	0.14	0.25
25	0.24	0.58	0.57	0.40	0.33	0.20
26	0.20	0.20	0.38	0.29	0.21	0.18
27	0.19	0.21	0.23	0.23	0.23	0.25
28	0.25	0.45	1.35	0.98	0.48	0.22
29	0.16	0.16	0.18	0.19	0.20	0.19
30	0.18	0.22	0.34	0.19	0.11	0.08
31	0.14	0.09	0.09	0.09	0.09	0.09
MIN	0.07	0.07	0.07	0.07	0.07	0.07
MAX	0.25	0.58	1.35	0.98	0.48	0.25
AVG	0.12	0.15	0.19	0.16	0.14	0.12

City Of Jackson, MS
O. B. Curtis Surface Water Treatment Plant
Disinfectant Compliance

System ID
Month Of

250008-02
January 2020

Jan 2020	TIME					
	12:00 AM	4:00 AM	8:00 AM	12:00 PM	4:00 PM	8:00 PM
1	3.2	3.3	3.3	3.8	3.7	3.5
2	3.5	3.6	3.2	4.0	3.5	3.3
3	3.1	2.8	3.2	4.0	3.7	3.5
4	3.1	1.9	2.9	3.8	3.4	2.5
5	3.1	3.0	3.7	3.0	2.3	2.9
6	3.3	3.9	3.5	2.5	2.3	3.2
7	2.5	2.5	3.5	3.0	2.4	3.2
8	2.4	2.4	2.9	3.3	2.2	3.4
9	3.2	3.3	3.0	3.3	2.8	2.9
10	2.9	3.1	2.9	3.2	3.1	3.2
11	3.2	3.1	2.7	2.3	2.5	3.2
12	2.4	3.1	4.3	2.2	2.2	2.4
13	2.5	2.7	2.2	2.9	3.1	3.2
14	3.1	3.2	3.3	3.2	3.1	3.2
15	3.3	2.8	2.8	4.0	3.8	3.5
16	2.2	3.5	2.0	3.1	2.4	2.6
17	2.7	2.8	2.8	3.4	3.3	3.5
18	3.4	3.5	3.5	3.5	3.5	3.4
19	3.4	3.5	2.5	3.2	2.8	2.7
20	2.9	3.2	3.1	3.0	3.2	3.4
21	3.2	3.1	2.9	3.0	2.9	3.0
22	2.0	2.9	2.7	2.8	2.9	2.8
23	2.9	3.0	2.9	3.1	2.2	2.4
24	2.6	2.7	2.9	2.7	1.6	1.3
25	2.9	2.6	1.8	2.2	2.2	1.5
26	2.5	2.9	2.7	2.0	2.2	2.1
27	2.4	3.1	2.7	2.2	2.2	2.0
28	2.8	1.1	2.0	2.2	3.9	3.7
29	3.2	3.2	2.2	1.8	3.2	2.4
30	2.2	2.9	2.9	3.7	3.8	3.9
31	2.3	3.1	3.1	2.4	2.4	3.5
MIN	2.0	1.1	1.8	1.8	1.6	1.3
MAX	3.5	3.9	4.3	4.0	3.9	3.9
AVG	2.8	3.0	2.9	3.0	2.9	2.9

CITY OF JACKSON
O. B. Curtis Water Treatment Plant
Monthly Report For HS# 2

System ID **250008-02**
Month of **January 2020**

- | | |
|---|------------|
| 1. Total number of turbidity measurements taken during the month. | CONTINUOUS |
| 2. Percentage of turbidity that were equal to or less than the turbidity limit of 0.3 NTU. | 99.9% |
| 3. Number of filters that exceeded 0.5 NTU in 2 consecutive readings taken 15 min. apart after first four hours of operation. | NONE |
| 4. Number of filters that exceeded 1.0 NTU in 2 consecutive readings taken 15 min. apart in 3 consecutive months. | NONE |
| 5. Lowest daily disinfectant concentration entering the distribution system in mg/l. | |

1	2.3	7	2.7	13	2.3	19	3.4	25	1.9
2	2.7	8	2.6	14	2.3	20	3.2	26	2.0
3	2.5	9	2.7	15	2.7	21	3.4	27	2.0
4	3.7	10	2.8	16	2.7	22	3.8	28	1.4
5	3.4	11	2.9	17	3.2	23	3.1	29	2.0
6	2.0	12	3.1	18	3.5	24	2.3	30	2.4
								31	3.1

- | | |
|--|------|
| 6. Date and duration of each period the disinfectant fell below 0.2 mg/l for more than an hour while entering the distribution system. | NONE |
| 7. Total number of disinfectant residual measured in the distribution system where total coliform samples were collected. | 125 |
| 8. Number of instances where disinfectant was not measured in the distribution system where total coliform samples were collected. | NONE |
| 9. Number of instances where disinfectant was measured in the distributed system but not detected. | NONE |

City Of Jackson, MS
O. B. Curtis Surface Water Treatment Plant
Turbidity Compliance Report

System ID
Month Of

250008-02
January 2020

Jan 2020	TURBIDITIES (NTU)	
	RAW	FINISHED
1	28.6	0.02
2	25.2	0.06
3	28.1	0.02
4	30.4	0.02
5	28.6	0.03
6	27.7	0.03
7	33.6	0.04
8	31.4	0.05
9	30.3	0.05
10	36.8	0.03
11	37.6	0.03
12	36.3	0.03
13	30.7	0.03
14	34.9	0.04
15	32.3	0.02
16	33.2	0.02
17	39.9	0.02
18	46.4	0.02
19	47.3	0.02
20	42.7	0.02
21	40.5	0.02
22	39.0	0.03
23	36.9	0.03
24	34.3	0.03
25	35.0	0.03
26	32.7	0.03
27	31.8	0.03
28	30.7	0.03
29	32.3	0.03
30	38.1	0.03
31	36.2	0.03
MIN	25.2	0.02
MAX	47.3	0.06
Avg	34.5	0.03

City Of Jackson, MS
O. B. Curtis Surface Water Treatment Plant
Turbidity Compliance

System ID
Month Of

250008-02
January 2020

Jan 2020	TIME					
	12:00 AM	4:00 AM	8:00 AM	12:00 PM	4:00 PM	8:00 PM
1	0.02	0.02	0.01	0.01	0.01	0.01
2	0.01	0.01	0.06	0.02	0.02	0.02
3	0.02	0.02	0.02	0.01	0.02	0.02
4	0.02	0.02	0.02	0.02	0.02	0.02
5	0.02	0.03	0.03	0.02	0.02	0.01
6	0.01	0.02	0.03	0.01	0.01	0.01
7	0.01	0.01	0.01	0.03	0.04	0.04
8	0.04	0.05	0.04	0.04	0.02	0.02
9	0.02	0.02	0.05	0.05	0.03	0.03
10	0.03	0.03	0.03	0.02	0.02	0.03
11	0.03	0.03	0.02	0.03	0.02	0.03
12	0.02	0.02	0.02	0.03	0.03	0.03
13	0.03	0.03	0.03	0.03	0.03	0.03
14	0.03	0.03	0.03	0.04	0.03	0.02
15	0.02	0.01	0.01	0.02	0.02	0.02
16	0.02	0.01	0.01	0.01	0.01	0.02
17	0.02	0.02	0.01	0.01	0.01	0.01
18	0.01	0.01	0.01	0.01	0.02	0.02
19	0.01	0.01	0.01	0.01	0.02	0.02
20	0.02	0.02	0.02	0.02	0.02	0.02
21	0.02	0.02	0.02	0.02	0.02	0.02
22	0.02	0.02	0.02	0.02	0.03	0.03
23	0.03	0.03	0.03	0.03	0.03	0.03
24	0.03	0.03	0.03	0.03	0.03	0.03
25	0.03	0.03	0.03	0.03	0.03	0.03
26	0.03	0.03	0.03	0.03	0.03	0.03
27	0.03	0.03	0.03	0.03	0.03	0.03
28	0.03	0.03	0.03	0.03	0.03	0.03
29	0.03	0.03	0.03	0.03	0.03	0.03
30	0.03	0.03	0.03	0.02	0.02	0.03
31	0.03	0.03	0.02	0.03	0.03	0.03
MIN	0.01	0.01	0.01	0.01	0.01	0.01
MAX	0.04	0.05	0.06	0.05	0.04	0.04
AVG	0.02	0.02	0.02	0.02	0.02	0.02

City Of Jackson, MS
O. B. Curtis Surface Water Treatment Plant
Disinfectant Compliance

System ID
Month Of

250008-02
January 2020

Jan 2020	TIME					
	12:00 AM	4:00 AM	8:00 AM	12:00 PM	4:00 PM	8:00 PM
1	2.3	2.5	2.5	2.6	2.5	2.5
2	2.7	2.7	3.0	3.1	2.7	2.7
3	2.8	3.0	2.8	2.5	2.7	3.5
4	3.7	4.1	4.0	4.0	3.9	3.9
5	4.0	3.9	4.5	4.5	3.5	3.4
6	3.4	3.6	3.1	2.0	2.1	2.6
7	2.7	2.9	3.3	3.1	2.7	2.7
8	3.3	2.9	2.8	2.6	2.6	2.7
9	2.7	3.1	3.3	2.9	2.7	2.8
10	3.1	2.8	3.4	3.3	2.9	2.9
11	2.9	3.4	3.4	3.6	2.9	2.9
12	3.1	3.2	3.2	3.6	3.1	3.2
13	2.6	2.9	3.0	3.0	2.9	2.3
14	2.3	2.6	2.9	3.4	3.4	3.4
15	3.2	3.2	3.2	2.7	3.9	3.5
16	2.7	3.4	3.2	3.1	3.1	3.8
17	3.8	3.9	4.0	3.9	3.2	3.2
18	3.5	3.8	3.8	3.9	3.5	3.5
19	3.6	3.7	3.9	3.6	3.4	3.7
20	3.2	3.4	3.9	4.0	3.7	3.4
21	3.4	3.7	3.8	4.1	4.1	3.8
22	3.9	4.0	4.0	4.2	3.8	3.9
23	3.8	4.0	4.2	3.9	3.3	3.1
24	3.1	3.2	3.3	2.8	2.4	2.3
25	2.8	2.6	3.0	3.0	2.4	1.9
26	2.0	2.1	2.9	2.9	2.8	2.7
27	2.6	3.1	2.8	2.7	2.6	2.0
28	2.9	1.5	1.4	2.2	2.8	2.1
29	2.8	2.9	2.0	2.8	2.3	2.0
30	2.4	2.6	2.7	2.6	2.6	3.0
31	3.7	3.7	3.1	3.2	3.1	3.2
MIN	2.0	1.5	1.4	2.0	2.1	1.9
MAX	4.0	4.1	4.5	4.5	4.1	3.9
AVG	3.1	3.2	3.2	3.2	3.0	3.0

CITY OF JACKSON
J. H. Fewell Water Treatment Plant
Monthly Report

System ID **250008-01**
Month of **January 2020**

- | | |
|---|------------|
| 1. Total number of turbidity measurements taken during the month. | CONTINUOUS |
| 2. Percentage of turbidity that were equal to or less than the turbidity limit of 0.3 NTU. | 96.3% |
| 3. Number of filters that exceeded 0.5 NTU in 2 consecutive readings taken 15 min. apart after first four hours of operation. | NONE |
| 4. Number of filters that exceeded 1.0 NTU in 2 consecutive readings taken 15 min. apart in 3 consecutive months. | NONE |
| 5. Lowest daily disinfectant concentration entering the distribution system in mg/l. | |

1	1.9	7	2.2	13	2.3	19	1.9	25	2.4
2	2.0	8	2.1	14	2.3	20	2.1	26	2.3
3	2.4	9	2.1	15	1.9	21	2.3	27	2.4
4	1.2	10	2.4	16	2.0	22	2.0	28	2.1
5	2.1	11	2.2	17	1.9	23	2.2	29	2.0
6	2.1	12	2.1	18	1.9	24	2.3	30	3.4
								31	3.5

- | | |
|--|------|
| 6. Date and duration of each period the disinfectant fell below 0.2 mg/l for more than an hour while entering the distribution system. | NONE |
| 7. Total number of disinfectant residual measured in the distribution system where total coliform samples were collected. | 125 |
| 8. Number of instances where disinfectant was not measured in the distribution system where total coliform samples were collected. | NONE |
| 9. Number of instances where disinfectant was measured in the distributed system but not detected. | NONE |

City of Jackson, MS
J. H. Fewell Surface Water Treatment Plant
Turbidity Compliance Report

System ID
MONTH

250008-01
January 2020

Jan 2020	TURBIDITIES (NTU)			
	RAW	SETTLED	FILTER	HS #1
1	34.3	1.09	0.17	0.12
2	90.0	1.24	0.18	0.32
3	90.0	1.96	0.30	0.18
4	60.0	1.29	0.25	0.18
5	90.0	1.43	0.25	0.16
6	66.6	0.96	0.28	0.13
7	53.6	1.21	0.23	0.13
8	55.5	0.99	0.30	0.13
9	44.5	0.90	0.26	0.12
10	73.5	1.36	0.27	0.16
11	90.0	1.09	0.34	0.34
12	53.2	1.17	0.27	0.17
13	66.7	0.92	0.20	0.19
14	57.3	1.09	0.28	0.30
15	50.8	1.06	0.44	0.21
16	89.7	1.05	0.35	0.28
17	90.0	1.32	0.34	0.31
18	44.9	1.55	0.33	0.29
19	49.6	1.70	0.30	0.30
20	43.9	1.82	0.23	0.34
21	62.0	1.96	0.21	0.34
22	34.9	1.14	0.52	0.34
23	36.0	1.65	3.00	0.74
24	90.0	4.44	1.83	0.30
25	35.1	1.90	0.80	0.34
26	41.3	1.68	0.94	0.31
27	33.2	1.25	1.10	0.27
28	32.7	1.10	0.29	0.32
29	54.8	1.25	0.79	0.27
30	29.6	1.02	0.68	0.20
31	33.0	1.10	0.53	0.20
MIN	29.6	0.90	0.17	0.12
MAX	90.0	4.44	3.00	0.74
Avg	57.3	1.41	0.52	0.21

City of Jackson, MS
J. H. Fewell Surface Water Treatment Plant
Turbidity Compliance

System ID
MONTH

250008-01
January 2020

Jan 2020	TIME					
	12:00 AM	4:00 AM	8:00 AM	12:00 PM	4:00 PM	8:00 PM
1	0.11	0.11	0.11	0.10	0.12	0.11
2	0.11	0.14	0.17	0.13	0.32	0.24
3	0.18	0.15	0.17	0.17	0.17	0.13
4	0.11	0.18	0.12	0.10	0.12	0.12
5	0.12	0.13	0.16	0.13	0.13	0.12
6	0.12	0.13	0.12	0.11	0.12	0.10
7	0.09	0.11	0.11	0.13	0.12	0.13
8	0.13	0.12	0.13	0.12	0.11	0.10
9	0.10	0.10	0.10	0.10	0.11	0.12
10	0.13	0.15	0.16	0.13	0.13	0.14
11	0.13	0.12	0.34	0.25	0.14	0.12
12	0.12	0.12	0.16	0.17	0.16	0.15
13	0.14	0.17	0.19	0.17	0.12	0.11
14	0.12	0.13	0.22	0.30	0.24	0.23
15	0.13	0.11	0.11	0.10	0.21	0.20
16	0.19	0.28	0.25	0.23	0.21	0.20
17	0.19	0.29	0.30	0.30	0.31	0.29
18	0.20	0.23	0.29	0.28	0.22	0.15
19	0.16	0.27	0.29	0.30	0.30	0.23
20	0.17	0.17	0.18	0.34	0.21	0.25
21	0.28	0.34	0.26	0.24	0.23	0.23
22	0.25	0.31	0.34	0.30	0.28	0.30
23	0.67	0.73	0.74	0.30	0.30	0.30
24	0.30	0.30	0.30	0.27	0.27	0.27
25	0.33	0.34	0.32	0.27	0.27	0.27
26	0.27	0.27	0.31	0.27	0.27	0.27
27	0.27	0.27	0.27	0.27	0.27	0.27
28	0.27	0.27	0.27	0.32	0.21	0.29
29	0.27	0.27	0.27	0.23	0.20	0.20
30	0.20	0.20	0.20	0.20	0.20	0.20
31	0.20	0.20	0.20	0.20	0.20	0.20
MIN	0.09	0.10	0.10	0.10	0.11	0.10
MAX	0.67	0.73	0.74	0.34	0.32	0.30
AVG	0.20	0.22	0.23	0.21	0.20	0.19

City Of Jackson, MS
J. H. Fewell Surface Water Treatment Plant
Disinfectant Compliance

System ID
MONTH

250008-01
January 2020

Jan 2020	TIME					
	12:00 AM	4:00 AM	8:00 AM	12:00 PM	4:00 PM	8:00 PM
1	2.7	2.4	2.4	2.5	1.9	2.3
2	3.2	2.2	2.5	2.5	2.0	2.5
3	2.5	3.5	2.4	3.5	3.0	3.0
4	3.1	1.7	1.2	1.7	2.3	3.4
5	2.1	2.1	2.1	3.7	4.0	4.2
6	3.9	3.2	2.6	2.5	2.1	2.3
7	2.3	2.3	2.5	2.6	2.5	2.2
8	2.2	2.1	2.3	2.3	2.2	2.3
9	2.3	2.1	2.1	3.4	2.5	2.7
10	2.8	2.4	2.7	2.4	2.4	2.5
11	2.2	2.3	3.3	2.7	2.5	2.6
12	2.6	2.6	2.5	2.2	2.1	2.4
13	2.3	2.5	2.4	2.3	2.6	2.5
14	2.4	2.3	2.5	3.3	2.3	3.3
15	3.0	1.9	1.9	2.6	2.2	2.0
16	2.2	2.2	2.1	2.0	2.1	2.3
17	2.2	1.9	2.5	2.5	2.8	2.0
18	2.4	2.5	2.2	2.0	2.1	1.9
19	1.9	2.4	2.3	2.2	2.3	2.3
20	2.3	2.4	2.1	2.4	2.3	3.3
21	2.3	2.4	2.4	2.4	2.7	2.5
22	2.5	2.5	2.3	2.0	2.2	2.4
23	2.7	2.4	2.2	2.2	2.4	2.2
24	3.1	4.4	2.3	2.5	2.5	2.9
25	3.9	2.4	2.9	2.4	2.5	2.7
26	3.1	3.1	2.9	2.3	2.9	2.4
27	3.0	3.3	2.4	2.4	3.9	2.7
28	3.1	3.2	2.3	2.3	2.4	2.1
29	2.6	2.1	2.6	2.0	4.1	4.2
30	3.6	3.5	3.4	3.7	3.8	3.8
31	3.7	3.7	3.6	3.6	3.6	3.5
MIN	1.9	1.7	1.2	1.7	1.9	1.9
MAX	3.9	4.4	3.6	3.7	4.1	4.2
AVG	2.7	2.6	2.4	2.6	2.6	2.7

CITY OF JACKSON
DISTRIBUTION SYSTEM DISINFECTANT DATA

System ID 250008

Month of January 2020

	No. of sites, disinfectant residual measured (a)	No. of sites, no disinfectant measured, HPC measured (b)	No. of sites, disinfectant residual not detected, no HPC measured (c)	No. of sites, disinfectant residual not detected. HPC> 500/ml (d)	No. of sites, disinfectant residual not measured. HPC > 500/ml (e)
DATE	COL 2	COL 3	COL 4	COL 5	COL 6
1					
2					
3					
4					
5					
6	42				
7	21				
8	39				
9	11				
10					
11					
12					
13	12				
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
Total	125	0	0	0	0

$$V = \frac{(c+d+e)}{(a+b)} * 100$$

$$V = 0$$

CITY OF JACKSON
CHLORINE DIOXIDE COMPLIANCE

Jan-20	SYSTEM ID: 250008-02		SYSTEM ID: 250008-01	
	O.B. CURTIS		J. H. FEWELL	
	ClO ₂	ClO ⁻	ClO ₂	ClO ⁻
1	OFF	OFF	OFF	OFF
2	OFF	OFF	OFF	OFF
3	OFF	OFF	OFF	OFF
4	OFF	OFF	OFF	OFF
5	OFF	OFF	OFF	OFF
6	OFF	OFF	OFF	OFF
7	OFF	OFF	OFF	OFF
8	OFF	OFF	OFF	OFF
9	OFF	OFF	OFF	OFF
10	OFF	OFF	OFF	OFF
11	OFF	OFF	OFF	OFF
12	OFF	OFF	OFF	OFF
13	OFF	OFF	OFF	OFF
14	OFF	OFF	OFF	OFF
15	OFF	OFF	OFF	OFF
16	OFF	OFF	OFF	OFF
17	OFF	OFF	OFF	OFF
18	OFF	OFF	OFF	OFF
19	OFF	OFF	OFF	OFF
20	OFF	OFF	OFF	OFF
21	OFF	OFF	OFF	OFF
22	OFF	OFF	OFF	OFF
23	OFF	OFF	OFF	OFF
24	OFF	OFF	OFF	OFF
25	OFF	OFF	OFF	OFF
26	OFF	OFF	OFF	OFF
27	OFF	OFF	OFF	OFF
28	OFF	OFF	OFF	OFF
29	OFF	OFF	OFF	OFF
30	OFF	OFF	OFF	OFF
31	OFF	OFF	OFF	OFF

DISTRIBUTION SITES			
DATE	SITE	ClO ₂	ClO ⁻
	Olympia	OFF	OFF
	Boling St	OFF	OFF
	John Hopkins	OFF	OFF

CITY OF JACKSON
TOC REMOVAL SUMMARY

2020

TOC Table- Required % Removal of TOC			
Source Water TOC (ppm)	Source Water Alkalinity, ppm as CaCO ₃		
	0-60	>60-120	>120
>2.0 to 4.0	35.0%	25.0%	15.0%
>4.0 to 8.0	45.0%	35.0%	25.0%
>8.0	50.0%	40.0%	30.0%

$$\% \text{ ACTUAL TOC REMOVED} = \frac{\text{RAW TOC} - \text{FINISHED TOC}}{\text{RAW TOC}} \times 100\%$$

$$\text{TOC REMOVAL RATIO} = \frac{\% \text{ ACTUAL TOC REMOVED}}{\text{REQUIRED TOC REMOVAL}}$$

Date	Water Treatment Plant	TOC Summary			TOC % Removal Summary		
		Source Water TOC (ppm)	Treated Water TOC (ppm)	Actual TOC Removed (%)	Required TOC Removal (%)	TOC Removal Ratio	
1/6/2020	OBC HS1	8	11.9	2.6	78.2	50.0	1.56
	OBC HS2	8	11.9	3.5	70.6	50.0	1.41
	JHF HS1	10	11.3	3.2	71.7	50.0	1.43
1/15/2020	OBC HS1	8	9.1	2.1	76.9	50.0	1.54
	OBC HS2	8	9.1	1.2	86.8	50.0	1.74
	JHF HS1	9	10.3	1.6	84.5	50.0	1.69
1/23/2020	OBC HS1	8	10.9	4.5	58.7	50.0	1.17
	OBC HS2	8	10.9	3.4	68.8	50.0	1.38
	JHF HS1	8	10.8	3.3	69.4	50.0	1.39
1/29/2020	OBC HS1	9	5.7	2.0	64.9	45.0	1.44
	OBC HS2	9	5.7	1.4	75.4	45.0	1.68
	JHF HS1	10	6.0	2.2	63.3	45.0	1.41
	OBC HS1						
	OBC HS2						
	JHF HS1						
	OBC HS1						
	OBC HS2						
	JHF HS1						
	OBC HS1						
	OBC HS2						
	JHF HS1						
	OBC HS1						
	OBC HS2						
	JHF HS1						
	OBC HS1						
	OBC HS2						
	JHF HS1						
	OBC HS1						
	OBC HS2						
	JHF HS1						
	OBC HS1						
	OBC HS2						
	JHF HS1						
	OBC HS1						
	OBC HS2						
	JHF HS1						
	OBC HS1						
	OBC HS2						
	JHF HS1						
	OBC HS1						
	OBC HS2						
	JHF HS1						
RUNNING ANNUAL AVERAGE	OBC HS1				1.43		
	OBC HS2				1.55		
	JHF HS1				1.48		
	TOTAL COMBINED RUNNING ANNUAL AVERAGE					1.49	

CITY OF JACKSON
CORROSION CONTROL DATA

January 2020 DATE / SHIFT		SYSTEM ID: 250008-02			SYSTEM ID: 250008-01		
		OBC COMBINED HIGH SERVICE			JHF		
		pH	Alkalinity	Hardness	pH	Alkalinity	Hardness
1	0700 - 1500	9.7	22	36	9.0	15	58
	1500 - 2300	9.5	24	38	9.8	16	61
	2300 - 0700	9.6	27	35	9.9	17	62
2	0700 - 1500	9.7	20	44	9.3	18	63
	1500 - 2300	9.7	38	32	9.3	20	69
	2300 - 0700	9.7	35	29	9.5	18	66
3	0700 - 1500	9.6	23	36	9.6	22	65
	1500 - 2300	9.4	24	33	9.7	19	61
	2300 - 0700	9.4	29	31	9.8	17	65
4	0700 - 1500	9.4	27	34	9.1	13	65
	1500 - 2300	9.4	24	39	9.2	17	73
	2300 - 0700	9.6	31	29	9.7	19	59
5	0700 - 1500	9.6	35	16	9.4	15	55
	1500 - 2300	9.6	38	21	9.6	17	62
	2300 - 0700	9.5	36	25	9.5	17	57
6	0700 - 1500	9.6	36	25	9.6	23	61
	1500 - 2300	9.7	38	29	9.4	20	61
	2300 - 0700	9.7	35	31	9.5	14	62
7	0700 - 1500	9.8	37	29	9.6	15	51
	1500 - 2300	9.6	38	27	9.7	16	70
	2300 - 0700	9.5	32	24	9.6	15	62
8	0700 - 1500	9.2	36	36	9.6	19	72
	1500 - 2300	9.4	39	31	9.4	17	66
	2300 - 0700	9.3	34	20	9.6	14	67
9	0700 - 1500	9.6	39	18	9.2	12	54
	1500 - 2300	9.6	35	24	9.1	16	74
	2300 - 0700	9.5	33	29	9.6	15	66
10	0700 - 1500	9.5	32	26	9.5	13	52
	1500 - 2300	9.5	39	30	9.7	21	62
	2300 - 0700	9.5	38	28	9.7	16	62
11	0700 - 1500	9.7	34	31	9.5	14	70
	1500 - 2300	9.6	34	29	9.8	20	81
	2300 - 0700	9.5	31	30	9.6	16	65

CITY OF JACKSON
CORROSION CONTROL DATA

January 2020		SYSTEM ID: 250008-02			SYSTEM ID: 250008-01		
		OBC COMBINED HIGH SERVICE			JHF		
		pH	Alkalinity	Hardness	pH	Alkalinity	Hardness
12	0700 - 1500	9.9	36	28	9.4	15	67
	1500 - 2300	9.9	38	26	9.5	16	79
	2300 - 0700	8.3	36	29	9.3	13	110
13	0700 - 1500	7.4	33	28	9.2	10	68
	1500 - 2300	7.2	26	38	9.3	18	53
	2300 - 0700	9.4	25	36	9.3	14	60
14	0700 - 1500	9.6	18	30	9.4	11	52
	1500 - 2300	9.5	28	31	9.5	23	68
	2300 - 0700	9.3	29	30	9.8	17	65
15	0700 - 1500	10.0	40	27	9.7	16	53
	1500 - 2300	9.8	38	27	9.5	15	64
	2300 - 0700	9.5	33	29	9.4	14	60
16	0700 - 1500	9.6	34	26	9.4	15	56
	1500 - 2300	9.7	38	29	9.5	14	62
	2300 - 0700	9.5	33	29	9.3	14	62
17	0700 - 1500	9.9	37	27	9.6	14	53
	1500 - 2300	9.7	38	30	9.6	21	56
	2300 - 0700	9.6	39	29	9.6	19	61
18	0700 - 1500	9.7	37	31	9.8	22	52
	1500 - 2300	9.5	39	32	9.5	19	63
	2300 - 0700	9.6	40	34	9.8	24	68
19	0700 - 1500	9.7	28	35	9.7	26	70
	1500 - 2300	9.7	30	38	9.2	16	59
	2300 - 0700	9.7	39	42	9.6	13	61
20	0700 - 1500	9.8	24	27	9.4	10	46
	1500 - 2300	9.7	40	32	9.4	21	49
	2300 - 0700	9.6	39	31	9.8	12	58
21	0700 - 1500	9.6	28	40	9.3	16	55
	1500 - 2300	9.7	27	41	9.7	15	80
	2300 - 0700	9.6	28	38	9.9	13	68
22	0700 - 1500	9.7	27	31	9.0	12	62
	1500 - 2300	9.8	30	34	9.4	13	65
	2300 - 0700	9.8	29	31	9.4	12	64

CITY OF JACKSON
CORROSION CONTROL DATA

January 2020		SYSTEM ID: 250008-02			SYSTEM ID: 250008-01		
		OBC COMBINED HIGH SERVICE			JHF		
		pH	Alkalinity	Hardness	pH	Alkalinity	Hardness
23	0700 - 1500	9.8	24	34	9.6	14	56
	1500 - 2300	9.9	36	32	9.3	17	83
	2300 - 0700	9.8	30	23	9.6	14	67
24	0700 - 1500	9.9	34	21	9.1	11	66
	1500 - 2300	9.7	39	28	9.6	23	70
	2300 - 0700	9.7	40	25	9.5	17	63
25	0700 - 1500	10.8	37	29	9.1	15	74
	1500 - 2300	9.7	36	29	9.2	14	56
	2300 - 0700	9.8	40	31	9.1	12	54
26	0700 - 1500	9.8	45	32	9.4	13	62
	1500 - 2300	9.8	39	29	9.6	23	54
	2300 - 0700	9.8	40	38	9.6	24	68
27	0700 - 1500	9.9	44	22	9.5	14	66
	1500 - 2300	10.6	36	28	9.3	14	71
	2300 - 0700	9.3	34	25	9.1	13	74
28	0700 - 1500	6.9	15	14	9.5	10	66
	1500 - 2300	9.2	34	26	9.6	20	66
	2300 - 0700	9.5	29	35	9.3	13	68
29	0700 - 1500	9.6	34	17	9.5	14	65
	1500 - 2300	10.1	34	22	9.5	21	53
	2300 - 0700	9.6	30	23	9.6	15	65
30	0700 - 1500	9.7	32	25	9.2	14	66
	1500 - 2300	9.8	43	33	9.6	19	66
	2300 - 0700	9.5	38	33	9.7	15	68
31	0700 - 1500	9.5	28	32	9.6	12	62
	1500 - 2300	9.5	26	38	9.6	14	62
	2300 - 0700	9.5	30	37	9.3	14	64
MONTHLY MIN		6.9	15	14	9.0	10	46
MONTHLY MAX		10.8	45	44	9.9	26	110
MONTHLY AVG		9.6	33	30	9.5	16	64

CITY OF JACKSON
UV COMPLIANCE

System ID 250008-02 Month of January 2020 Total Off-Specification Volume (MG) = 0

Date	UV Reactor #1					UV Reactor #2					UV Reactor #3				
	Run Time (Hrs)	Total Production (Gals)	Calculated Min Dose (mJ/cm2)	Min Flow Rate (MGD)	Min UVT (%)	Run Time (Hrs)	Total Production (Gals)	Calculated Min Dose (mJ/cm2)	Min Flow Rate (MGD)	Min UVT (%)	Run Time (Hrs)	Total Production (Gals)	Calculated Min Dose (mJ/cm2)	Min Flow Rate (MGD)	Min UVT (%)
1/1/2020	24.0	1988571	47	2.0	85	24.0	2143270	19	2.1	85	24.0	1816646	43	1.8	89
1/2/2020	24.0	1843718	50	1.8	85	24.0	2191630	19	2.2	85	24.0	1674559	46	1.7	89
1/3/2020	24.0	2186039	45	2.2	85	24.0	1978762	19	2.0	85	24.0	1993890	41	2.0	89
1/4/2020	23.4	2204687	43	2.2	85	24.0	1920865	19	1.9	85	23.4	2021286	107	2.0	89
1/5/2020	24.0	2184761	45	2.2	85	24.0	1930883	19	1.9	85	24.0	2001837	41	2.0	89
1/6/2020	24.0	2148248	46	2.1	85	24.0	1958877	19	2.0	85	24.0	1964402	41	2.0	89
1/7/2020	23.4	2246679	44	2.2	85	24.0	1681120	19	1.7	85	24.0	2116496	39	2.1	89
1/8/2020	24.0	2273562	47	2.3	85	24.0	1631520	19	1.6	85	24.0	2081299	41	2.1	89
1/9/2020	24.0	2275722	45	2.3	85	24.0	1613809	19	1.6	85	23.5	2035721	96	2.0	89
1/10/2020	24.0	2227597	45	2.2	85	24.0	1589723	19	1.6	85	24.0	2048337	39	2.0	89
1/11/2020	21.8	1994882	46	2.0	85	24.0	1518362	19	1.5	85	8.1	1869285	14	1.9	89
1/12/2020	24.0	2236475	44	2.2	85	24.0	1501034	19	1.5	85.0	OFFLINE				
1/13/2020	23.2	2171753	42	2.2	85	24.0	2014895	19	2.0	85.0	16.7	1971235	142	2.0	89
1/14/2020	24.0	2271002	43	2.3	85	24.0	2345772	19	2.3	85.0	23.6	2039871	39	2.0	89
1/15/2020	24.0	2254845	45	2.3	85	24.0	2275010	19	2.3	85	24.0	2074015	41	2.1	89
1/16/2020	23.3	2253993	44	2.3	85	24.0	2160601	19	2.2	85	24.0	2143778	40	2.1	89
1/17/2020	24.0	2053513	51	2.1	85	24.0	2350805	19	2.4	85	24.0	1873490	46	1.9	89
1/18/2020	24.0	1981746	55	2.0	85	24.0	2553169	19	2.6	85	23.3	1747069	128	1.7	89
1/19/2020	24.0	1744814	62	1.7	85	24.0	2539924	19	2.5	85	24.0	1583003	67	1.6	89
1/20/2020	23.2	2003427	52	2.0	85	24.0	1327122	19	1.3	85	24.0	1890107	50	1.9	89
1/21/2020	24.0	2283468	51	2.3	85	OFFLINE					24.0	2098215	65	2.1	89
1/22/2020	23.2	2542931	41	2.5	85	OFFLINE					19.9	1928115	101	1.9	89
1/23/2020	23.8	1873524	46	1.9	85	24.0	1854007	19	1.9	85	23.8	1705365	42	1.7	89
1/24/2020	19.0	1529908	37	1.5	85	24.0	1086540	19	1.1	85	19.0	1397991	33	1.4	89
1/25/2020	9.0	879969	15	0.9	85	24.0	780946	19	0.8	85	18.8	1691213	27	1.7	89
1/26/2020	OFFLINE					24.0	2089452	19	2.1	85	24.0	2202415	36	2.2	89
1/27/2020	OFFLINE					24.0	1336966	19	1.3	85	12.6	1322114	132	1.3	89
1/28/2020	24.0	2113061	40	2.1	85	24.0	2118031	19	2.1	85	20.9	1865600	90	1.9	89
1/29/2020	15.8	1406945	32	1.4	85	24.0	765672	19	0.8	85	16.2	1326013	1088	1.3	89
1/30/2020	23.6	2414439	44	2.4	85	OFFLINE					8.9	2219652	58	2.2	89
1/31/2020	24.0	2987210	38	3.0	85	OFFLINE					24.0	2770072	32	2.8	89

CITY OF JACKSON
UV COMPLIANCE

System ID 250008-02 Month of January 2020 Total Off-Specification Volume (MG) = 0

Date	UV Reactor #4					UV Reactor #5					UV Reactor #6									
	Run Time (Hrs)	Total Production (Gals)	Calculated Min Dose (mJ/cm2)	Min Flow Rate (MGD)	Min UVT (%)	Run Time (Hrs)	Total Production (Gals)	Calculated Min Dose (mJ/cm2)	Min Flow Rate (MGD)	Min UVT (%)	Run Time (Hrs)	Total Production (Gals)	Calculated Min Dose (mJ/cm2)	Min Flow Rate (MGD)	Min UVT (%)					
1/1/2020	24.0	2029952	43	2.0	95	24.0	2165567	72	2.2	93	24.0	2005082	54	2.0	85					
1/2/2020	23.6	1851714	45	1.9	95	24.0	2220484	72	2.2	93	23.4	1812590	57	1.8	85					
1/3/2020	24.0	2221184	41	2.2	95	24.0	2084427	72	2.1	93	24.0	2199079	51	2.2	85					
1/4/2020	24.0	2308732	40	2.3	95	24.0	2066281	72	2.1	93	24.0	2279672	50	2.3	85					
1/5/2020	23.5	2173815	41	2.2	95	24.0	2382262	72	2.4	93	24.0	2197770	51	2.2	85					
1/6/2020	24.0	2189121	42	2.2	95	24.0	2421783	72	2.4	93	23.4	2101712	51	2.1	85					
1/7/2020	24.0	2344898	40	2.3	95	24.0	2274612	72	2.3	93	24.0	2320548	50	2.3	85					
1/8/2020	24.0	2314452	41	2.3	95	24.0	2260751	72	2.3	93	24.0	2287457	51	2.3	85					
1/9/2020	24.0	2319412	40	2.3	95	24.0	2199245	72	2.2	93	24.0	2295894	50	2.3	85					
1/10/2020	23.6	2226781	39	2.2	95	24.0	2053396	72	2.1	92.5	24.0	2246891	49	2.2	85					
1/11/2020	24.0	2088259	43	2.1	95	24.0	1858737	72	1.9	92.5	23.4	2009867	53	2.0	85					
1/12/2020	24.0	2278151	40	2.3	95	24.0	1862559	72	1.9	92.5	24.0	2255120	50	2.3	85					
1/13/2020	23.2	2219240	39	2.2	95	24.0	1975321	72	2.0	92.5	23.2	2204132	48	2.2	85					
1/14/2020	24.0	2312636	40	2.3	95	24.0	2100943	72	2.1	92.5	24.0	2283697	49	2.3	85					
1/15/2020	24.0	2302398	41	2.3	95	24.0	2269739	72	2.3	92.5	24.0	2270807	51	2.3	85					
1/16/2020	23.4	2301720	40	2.3	95	24.0	2516783	72	2.5	92.5	24.0	2348376	50	2.3	85					
1/17/2020	24.0	2092355	46	2.1	95	24.0	2583541	72	2.6	92.5	23.5	2012589	57	2.0	85					
1/18/2020	24.0	2021681	48	2.0	95	24.0	2471847	72	2.5	92.5	24.0	1995825	62	2.0	85					
1/19/2020	24.0	1786738	53	1.8	95	24.0	2460926	72	2.5	92.5	24.0	1762284	70	1.8	85					
1/20/2020	23.2	2054477	47	2.1	95	24.0	967104	72	1.0	92.5	24.0	2076893	61	2.1	85					
1/21/2020	24.0	2318057	44	2.3	95	24.0	71088	72	0.1	92.5	24.0	2299975	53	2.3	85					
1/22/2020	23.1	2584302	38	2.6	95	OFFLINE					19.8	2111067	40	2.1	85					
1/23/2020	23.8	1913566	43	1.9	95						23.8	1889554	52	1.9	85					
1/24/2020	19.0	1562674	34	1.6	95						19.0	1543249	42	1.5	85					
1/25/2020	18.8	1869177	28	1.9	95						18.8	1848033	34	1.8	85					
1/26/2020	24.0	2433647	37	2.4	95						24.0	2408556	47	2.4	85					
1/27/2020	10.6	1096590	18	1.1	95						12.2	1435885	27	1.4	85					
1/28/2020	OFFLINE										24.0	2127883	46	2.1	85					
1/29/2020											15.4	1370267	35	1.4	85					
1/30/2020											23.5	2422480	49	2.4	85					
1/31/2020											24.0	3009978	41	3.0	85					

CITY OF JACKSON
UV COMPLIANCE

System ID 250008-01			Month of January 2020			Total Off-Specification Volume (MG) = 0							
Date	Min Flow Rate (MGD)	Total Production (Gals)	UV Reactor #1			UV Reactor #2			UV Reactor #3				
			Run Time (Hrs)	Calc Min Dose (mJ/cm ²)	Min UVT (%)	Run Time (Hrs)	Calc Min Dose (mJ/cm ²)	Min UVT (%)	Run Time (Hrs)	Calc Min Dose (mJ/cm ²)	Min UVT (%)		
1/1/2020	17.5	17455386	OFFLINE	24.0	30	85.0	OFFLINE			OFFLINE	OFFLINE		
1/2/2020	18.4	18410070		24.0	25	85.0	16.4	17	75.0				
1/3/2020	17.4	17401328		OFFLINE			13.4	19	75.0				
1/4/2020	21.1	21068928		24.0	24	75.0	24.0	15	87.0				
1/5/2020	16.3	16301894		17.3	16	85.0	OFFLINE			OFFLINE	OFFLINE		
1/6/2020	16.7	16726543		24.0	20	85.0	24.0	21.9	75.0				
1/7/2020	16.6	16642357		OFFLINE			24.0	16	75.0				
1/8/2020	16.5	16492016		24.0	17	85.0	OFFLINE						
1/9/2020	15.5	15536468		OFFLINE			24.0	16	75.0				
1/10/2020	19.3	19298661		17.8	19	85.0	24.0	16	75.0				
1/11/2020	19.3	19280791		19.4	21	85.0	OFFLINE			18.1	21	87.0	
1/12/2020	18.4	18398889		24.0	25	85.0	OFFLINE			15.5	17	87.0	
1/13/2020	17.5	17478262		24.0	24	85.0	OFFLINE			OFFLINE			
1/14/2020	16.5	16519699		24.0	22	85.0	24.0	18	85.0	24.0	24	75.0	
1/15/2020	17.9	17927648		24.0	16	85.0	24.0	25	75.0	24.0	23	75.0	
1/16/2020	21.8	21791651		OFFLINE			24.0	25	75.0	24.0	26	87.0	
1/17/2020	17.0	17027729		OFFLINE			24.0	25	75.0	24.0	25	87.0	
1/18/2020	16.2	16180014		OFFLINE			24.0	25	75.0	24.0	21	87.0	
1/19/2020	17.3	17327866		OFFLINE			24.0	26	75.0	24.0	19	87.0	
1/20/2020	20.4	20405719		OFFLINE			24.0	25	75.0	24.0	22	87.0	
1/21/2020	21.7	21657719		OFFLINE			24.0	23	75.0	24.0	21	87.0	
1/22/2020	23.2	23192890		OFFLINE			24.0	23	75.0	24.0	25	87.0	
1/23/2020	18.4	18390042		OFFLINE			12.9	15	85.0	24.0	25	87.0	
1/24/2020	17.3	17330815		OFFLINE			24.0	25	85.0	24.0	22	87.0	
1/25/2020	22.9	22888313		OFFLINE			24.0	25	85.0	24.0	21	87.0	
1/26/2020	19.9	19855284		OFFLINE			24.0	24	85.0	24.0	19	87.0	
1/27/2020	24.0	23959645		OFFLINE			OFFLINE			24.0	23	87.0	
1/28/2020	18.7	18709554		OFFLINE			8.6	14	87.0	24.0	21	87.0	
1/29/2020	24.5	24504686		OFFLINE			24.0	15	87.0	3.7	15	87.0	
1/30/2020	20.3	20263085		OFFLINE			16.9	17	87.0				
1/31/2020	20.2	20176852		OFFLINE									